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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/001,289	11/01/2001	Michael Rys	MSFT-0766/191575.1	2147
41505	7590	02/14/2006	EXAMINER	
WOODCOCK WASHBURN LLP (MICROSOFT CORPORATION)			ROBINSON, GRETA LEE	
ONE LIBERTY PLACE - 46TH FLOOR				
PHILADELPHIA, PA 19103			ART UNIT	PAPER NUMBER
			2168	
DATE MAILED: 02/14/2006				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/001,289

Applicant(s)

RYS ET AL.

Examiner

Greta L. Robinson

Art Unit

2168

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 November 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-32 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-32 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 18, 2005 has been entered.

Response to Arguments

Applicant's arguments filed August 16, 2005 have been fully considered but they are not persuasive. In the Pre-Appeal brief Request for Review Applicant argued the prior art reference Lee et al. does not disclose the limitation "creating a record in a buffer" and "copying the record from the buffer to a relational table". In response to Applicants argument the examiner respectfully maintains the rejection. The examiner notes claims 1, 14 and 25 are independent claims in the present application. Applicant's argument that the reference fails to show certain features are not cited in independent claims 14 and 25. Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). Claim 1 recites, a "method for loading hierarchical data into a first relational table" [note: claim 1 preamble]. Support for this limitation can be found in Lee et al. paragraph 0003 "The invention relates to a method and

system for automatically loading an extensible markup language (XML) document, as validated by a document-type definition (DTD), into a relational database". The step of "creating a record in a first buffer to the relational table" can be found in Lee et al. at paragraph 0108 which states storing the DTD 18 into the DTM tables 90, 92 and 94 preferably comprises steps of creating and filling the DTDM-Item table 90 in the metadata tables. Also note paragraph 0101 and Figures 1-1B. Note the limitation "copying the record from the first buffer to the first relational table" can be interpreted by the loading of the XML documents into the relational schema paragraph 0110.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-32 are rejected under 35 U.S.C. 102(e) as being anticipated by Lee et al. US Patent Application Publication No. 2002/0169788.

As per independent claims 1,13 Lee anticipates:
identifying a first node within the hierarchical data corresponding to a first column in the relational table and second node associated with the first node corresponding to data to be

stored in a row of the table corresponding to the first column at paragraph 96; creating a record in a first buffer associated with the first relational table at paragraph 108; and copying the record from the first buffer to the first relational table at paragraph 110, lines 4-6.

Lee teaches identifying a first node within the hierarchical data corresponding to a first column in the relational table and second node associated with the first node corresponding to data to be stored in a row of the table corresponding to the first column, creating a record in a first buffer associated with the first relational table and copying the record from the first buffer to the first relational table at paragraph 96, 108, 110.

As per claim 2 same as claim arguments above and Lee anticipates:
wherein the relational table is part of a relational database at paragraph 99, lines 5-7.
As per claim 3 same as claim arguments above and Lee anticipates:

wherein the hierarchical data is XML data at paragraph 96.

As per claim 4 same as claim arguments above and Lee anticipates:
wherein the hierarchical data is identified to correspond to a column in the relational table by way of a hierarchical schema at paragraph 54, 96.

As per claim 5 same as claim arguments above and Lee anticipates:
wherein the buffer associated with first table is created after determining that the parent node of the first node within the hierarchical data is associated with the first relational table at paragraph 54, 110.

As per claim 6 same as claim arguments above and Lee anticipates:
further comprising a second relational table at paragraph 105.

As per claim 7 same as claim arguments above and Lee anticipates:
further comprising creating a second buffer corresponding to the second relational table when a third node within the hierarchal data corresponds to a second relational table at paragraph 54, 110.

As per claim 8 same as claim arguments above and Lee anticipates: creating a record in the second buffer associated with the second relational table when a child node of the third node indicates that the hierarchical data comprises data associated with a column in the second relational table at paragraphs 54, 108; and copying the record from the second buffer to the second relational table at paragraph 110.

As per claim 9 same as claim arguments above and Lee anticipates:
further comprising copying the record from the first buffer to the first relational table substantially in parallel to copying the record from the second buffer to the second relational table at paragraph 110.

As per claim 10 same as claim arguments above and Lee anticipates:
wherein the first relational table has a relational relationship with the second relational table paragraph 83.

As per claim 11 same as claim arguments above and Lee anticipates:
wherein the first buffer comprises a disk file at paragraph 110.

As per claim 12 same as claim arguments above and Lee anticipates:

wherein the hierarchical data comprises an XML document at paragraph 96.

As per independent claims 14,24-25 Lee anticipates:

receiving a schema describing a relationship of nodes in the hierarchical data to at least one column in each of the at least two relational tables, mapping the hierarchical data based on the schema and creating records from the hierarchical data from nodes associated identified as data to be stored in the at least one column in each of the at least two relational tables, and streaming the records into the at least two relational tables at paragraph 54-55, 83, and 99.

Lee teaches receiving a schema describing a relationship of nodes in the hierarchical data to at least one column in each of the at least two relational tables, mapping the hierarchical data based on the schema and creating records from the hierarchical data from nodes associated identified as data to be stored in the at least one column in each of the at least two relational tables and streaming the records into the at least two relational tables at paragraph 54-55, 83, and 99.

As per claims 15-16, 26-27 same as claim arguments above and Lee anticipates: further comprising creating a buffer for each of the at least two relational tables wherein the records are stored before being streamed into the at least two relational tables at paragraph 110, lines 4-6.

As per claim 17 same as claim arguments above and Lee anticipates: wherein the hierarchical data is not size constrained at paragraph 83.

As per claims 18,28 same as claim arguments above and Lee anticipates: wherein the hierarchical data comprises an XML document at paragraph 96.

As per claims 19,29 same as claim arguments above and Lee anticipates:
wherein the schema comprises an XML schema at paragraph 83.

As per claims 20,30 same as claim arguments above and Lee anticipates: wherein
the at least two tables have a relational relationship at paragraph 83, 87..

As per claims 21,31 same as claim arguments above and Lee anticipates: wherein
one of the at least one columns is a key field in one of the at least two tables and foreign key
in the other one of the at least two tables, wherein the method further comprises populating
records associated with the at least two tables with the data associates with the one of the at
least one columns at paragraph 54, 99.

As per claims 22,32 same as claim arguments above and Lee anticipates:
further comprising streaming the record into the at least two relational table`s
substantially in parallel at paragraph 110.

Conclusion

The prior art made of record and not relied upon is considered pertinent to
applicant's disclosure.

Koseki et al. US Patent 6,732,124 B1

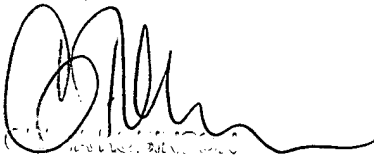
Cox US Patent 6,631,379 B2

Any inquiry concerning this communication or earlier communications from the
examiner should be directed to Greta L. Robinson whose telephone number is
(571)272-4118. The examiner can normally be reached on M-F 9:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey A. Gaffin can be reached on (571)272-4146. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Greta Robinson
Primary Examiner
February 6, 2006


Greta Robinson
Primary Examiner